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1 A structured approach for the definition of the semantics of active database

Piero Fraternali, Letizia Tanca

December 1995 ACM Transactions on Database Systems (TODS), Vol Publisher: ACM Press

Full text available: pdf(4.15 Additional Information: full citation, abst citings, index ten

Active DBMSs couple database technology with rule-based programmin capability of reaction to database (and possibly external) stimuli, called a capabilities of active databases are useful for a wide spectrum of applica security, view materialization, integrity checking and enforcement, or he database integration, which makes this technology very promising for the active database system consists of ...

Keywords: active database systems, database rule processing, events, fix rules, semantics

- 2 An overview of the University of Texas at Dallas' center for advanced telec
- systems and services (CATSS)
  Imrich Chlamtac, Stefano Basagni, Stephen Gibbs

# April 2000 ACM SIGMOBILE Mobile Computing and Communication 4 Issue 2

**Publisher:** ACM Press

Full text available: Pdf(816.71 KB) Additional Information: full citation, abst

The University of Texas at Dallas' Center for Advanced Telecommunica Services (CATSS) was founded in January 1998 to satisfy the acute need Dallas/Richardson telecommunications industry. Its mission is to foster a University partnership to advance local telecommunications industries to of systems and products. Composed of UTD faculty and industry researce the Center's focus is exclusively telecommunications-rel ...

3 Flexible collaboration transparency: supporting worker independence in rej

sharing systems

James Begole, Mary Beth Rosson, Clifford A. Shaffer

June 1999 ACM Transactions on Computer-Human Interaction (TOC) Issue 2

**Publisher:** ACM Press

Full text available: pdf(312.22 Additional Information: full citation, abst KB) citings, index ten

This article presents a critique of conventional collaboration transparenc called "application-sharing" systems, which provide the real-time shared single-user applications. We find that conventional collaboration transpa inefficient in their use of network resources and lack support for key gro concurrent work, relaxed WYSIWIS, and group awareness. Next, we pre approach to implementing collaborat ...

**Keywords**: Flexible JAMM, Java, application sharing, collaboration tran computer-supported cooperative work, groupware, usability

4 Type-directed partial evaluation

Olivier Danvy

January 1996 Proceedings of the 23rd ACM SIGPLAN-SIGACT sympoof programming languages POPL '96

**Publisher:** ACM Press

Full text available: pdf(1.59 Additional Information: full citation, reference MB)

Additional Information: full citation, reference makes index terms

5 <u>A layered protocol architecture for multimedia wireless-PCS networks</u> Antonio Iera, Salvatore Marano, Antonella Molinaro June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1 **Publisher:** Kluwer Academic Publishers

Full text available: pdf(575.41 Additional Information: full citation, abst KB) index terms

Coupled with the growing interest in the Universal Mobile Telecommun (UMTS) as a standard for future mobile communications, the need for a effectively support multimedia teleservices in such an environment is als Starting from the idea that multimedia means the integrated manipulation information and hence the independent handling of separate information an enhanced protocol architecture for the support of mult ...

6 A synchronization model for recorded presentations and its relevance for in

W. Hürst, R. Müller

October 1999 Proceedings of the seventh ACM international conference (Part 1)

**Publisher:** ACM Press

Full text available: pdf(1.84 Additional Information: full citation, abst citings, index ten

In order to improve the acceptance of recorded presentations, we introdu document type covering a wide range of different media classes typically scenario. Instances of this document type can be replayed using our time synchronization model. Random access in combination with the realized layered synchronization mechanism results in essential features such as I Scrolling and Unrestricted Cross-Referencing ...

7 Software process modeling and execution within virtual environments

John C. Doppke, Dennis Heimbigner, Alexander L. Wolf

January 1998 **ACM Transactions on Software Engineering and Method**Volume 7 Issue 1

**Publisher:** ACM Press

Full text available: pdf(232.51 Additional Information: full citation, abst citings, index ten

In the past, multiuser virtual environments have been developed as venue and social interaction. Recent research focuses instead on their utility in the real world. This research has identified the importance of a mapping and the virtual that permits the representation of real tasks in the virtual investigate the use of virtual environments—in particular, MUDs (Multi-Dimensions)—in the domain of softwa ...

Keywords: MOO, MUD, PROMO, software process, tools, virtual envir

8 The DiveBone—an application-level network architecture for Internet-base

Emmanuel Frécon, Chris Greenhalgh, Mårten Stenius
December 1999 Proceedings of the ACM symposium on Virtual reality
technology

**Publisher:** ACM Press

Full text available: pdf(1.82 Additional Information: full citation, abst citings, index ten

To allow the number of simultaneous participants and applications to gro Collaborative Virtual Environment (CVE) platforms are combining ideas consistency, absence of central servers and world sub-partitioning with I long distance connections, most of these systems rely on the existence of multicast backbone - the MBone. However, its generality and complexity obstacle to the establishment and testing of large-scale CVEs. This ...

Keywords: CVE, Dive, MBone, VR, multi-user, multicast, network arch

9 Specification and dialogue control of visual interaction through visual rewi

P. Bottoni, M. F. Costabile, P. Mussio

November 1999 ACM Transactions on Programming Languages and S (TOPLAS), Volume 21 Issue 6

**Publisher:** ACM Press

Full text available: pdf(886.71 Additional Information: full citation, abst KB) citings, index ten

Computers are increasingly being seen not only as computing tools but n communication tools, thus placing special emphasis on human-computer In this article, the focus is on visual HCI, where the messages exchanged and computer are images appearing on the computer screen, as usual in c interfaces. We formalize interactive sessions of a human-computer dialo set of legal visual sentences, i.e., as a visual languag ...

Keywords: control automaton, dialogue control, visual languages

10 Using Java to implement a multimedia annotation environment for young c

Afrodite Sevasti, Bouras Christos

October 2000 Proceedings of the eighth ACM international conference Publisher: ACM Press

Full text available: pdf(796.37 Additional Information: full citation, abst index terms

The exceptional advent and dominance of interactive multimedia applica has led to the need for their exploitation for educational, among many of this work, we present the design and implementation of a multimedia and environment for young children using the Java 2 Platform. This environment to provide children of ages 4 to 8 with the opportunity to reflect upon and from their everyday life.

Our aim was to exploit ...

**Keywords**: Java, hypermedia interface, interactive multimedia, media in synchronization, video annotation, video browsing

11 Applications: Wide-area information access to multimedia historical source

Tim Mills, Ken Moody

September 1996 Proceedings of the 7th workshop on ACM SIGOPS Eu Systems support for worldwide applications

**Publisher:** ACM Press

Full text available: pdf(713.74 KB) Additional Information: full citation, abst

An object-oriented model has been developed for heterogeneous multime

model underlies Cobra, a content-based retrieval architecture, which allo construction of powerful tools for wide area information access. The sys evaluated through case studies, the first of which is a search engine for h

12 SCAAT: incremental tracking with incomplete information

Greg Welch, Gary Bishop

August 1997 Proceedings of the 24th annual conference on Computer g interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(104.69 Additional Information: full citation, reference KB) index terms

**Keywords**: Kalman filter, autocalibration, calibration, delay, feature trac sensor fusion, virtual environments tracking

13 Software architecture of ubiquitous scientific computing environments for Tzvetan T. Drashansky, Sanjiva Weerawarana, Anupam Joshi, Ranjeewa A Elias N. Houstis

December 1996 Mobile Networks and Applications, Volume 1 Issue 4 Publisher: Kluwer Academic Publishers

Full text available: pdf(363.10 Additional Information: full citation, abst KB) index terms

Recent and anticipated technological advances in wireless computing wi compute ubiquitously, "anywhere" and "any time". However, mobile plate to have the computational resources to solve even moderately complex proutinely solve on static workstations today. In the SciencePad project of "Ubiquitous" Problem Solving Environments (UPSEs) to support mobile The objecti ...

14 Special issue on natural language generation: Describing complex charts in caption generation system

Vibhu O. Mittal, Giuseppe Carenini, Johanna D. Moore, Steven Roth September 1998 Computational Linguistics, Volume 24 Issue 3 Publisher: MIT Press

Full text available: pdf(2.58 Additional Information: full citation, abst mb) citings

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Graphical presentations can be used to communicate information in relat succinctly and effectively. However, novel graphical presentations that r attributes and relationships are often difficult to understand completely u Automatically generated graphical presentations must therefore either be generating simple, conventionalized graphical presentations, or risk inco possible solution to this problem would be to extend automa ...

15 Comparative logical and physical modeling in two OODBMSs

Nancy K. Wiegand, Teresa M. Adams

September 1994 ACM SIGAPP Applied Computing Review, Volume 2 Publisher: ACM Press

Full text available: pdf(553.69 KB) Additional Information: full citation, abst

An application developer's perspective is used to compare modeling and Object-Oriented Database Management Systems (OODBMSs): ODE (O Environment) and ObjectStore. Although both systems are based on the language C++, differences exist in their OODBMS designs. Comparing 1 between these two systems provides insight into other possible designs o features that could be possible in an OODBMS. As part of this discussio

Keywords: application development, database management systems, log design, object-oriented database management systems, physical database

16 An object-oriented model for a multimedia patient folder management syst

Fernando Ferri, Domenico M. Pisanelli, Fabrizio L. Ricci April 1996 ACM SIGBIO Newsletter, Volume 16 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abst

The management of information related to clinical activities is a complex patient related information reported in patient folders comes from hetero

and may be rendered by means of different modalities. Data can originat observations made by physicians like in the case of objective examinatio physiologic phenomena are captured by means of the involved electrical case of heart or brain activity), whereas anatomical s ...

Keywords: data modelling, object-oriented modelling, patient folder

17 An approach to the formal verification of cryptographic protocols

Dominique Bolignano

January 1996 Proceedings of the 3rd ACM conference on Computer an security

**Publisher:** ACM Press

Full text available: pdf(1.85 Additional Information: full citation, refe

MB) index terms

18 A modular approach to the design and analysis of authentication and key ex

(extended abstract)

Mihir Bellare, Ran Canetti, Hugo Krawczyk

May 1998 Proceedings of the thirtieth annual ACM symposium on The Publisher: ACM Press

Full text available: pdf(1.61 Additional Information: full citation, reference MB)

Additional Information: full citation, reference index terms

19 Functionality and architecture of a cooperative database system: a vision

Thomas Kirsche, Richard Lenz, Hans Schuster

November 1994 Proceedings of the third international conference on In knowledge management

**Publisher:** ACM Press

Full text available: pdf(857.55 Additional Information: full citation, abst KB) index terms

A database system fostering the cooperative usage and modification of a should provide standard database functionality (e.g. application-independent criteria and data modelling) plus means for a step-wise, cooperative refirmed to the cooperative refirmed to the cooperative refirmed to the cooperative refirmed to the cooperative usage and modification of a should provide standard database functionality (e.g. application-independent).

a long period of time. Key ingredients are a hierarchical organization of model covering cooperative uncertainly, and support for long-living cool Furthermore, mechanisms for data passing ...

## 20 Finite-state multimodal parsing and understanding

Michael Johnston, Srinivas Bangalore

July 2000 Proceedings of the 18th conference on Computational linguistics

Publisher: Association for Computational Linguistics

Full text available: Pdf(594.55 Additional Information: full citation, abst KB) citings

Multimodal interfaces require effective parsing and understanding of utto content is distributed across multiple input modes. Johnston 1998 presen which strategies for multimodal integration are stated declaratively using grammar that is used by a multi-dimensional chart parser to compose ing is highly expressive and supports a broad class of interfaces, but offers o for mutual compensation among the input mo ...

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- 1 Exokernel: an operating system architecture for application-level resource:
- D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995 ACM SIGOPS Operating Systems Review, Proceeding ACM symposium on Operating systems principles SOS Issue 5

**Publisher:** ACM Press

Full text available: pdf(2.16

Additional Information: full citation, refer

MB) index terms

2 ATM Architectures Using Optical Technology: An Overview of Switching Multiplexing

M. Guizani

July 1997 International Journal of Network Management, Volume 7 Is **Publisher:** John Wiley & Sons, Inc.

Full text available: pdf(525.89 Additional Information: full citation, abst KB)

KB) index terms

This overview presents recent studies on photonic switches and discusse different types, such as space-division switches, free-space switches, tim wavelength division switches, and frequency division switches. The arch applications of these switches are also discussed. © 1997 John Wiley &

3 Is paper safer? The role of paper flight strips in air traffic control

Wendy E. MacKay

December 1999 ACM Transactions on Computer-Human Interaction (6 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.13 Additional Information: full citation, abst citings, index ten

Air traffic control is a complex, safety-critical activity, with well-establis work practices. Yet many attempts to automate the existing system have controllers remain attached to a key work artifact: the paper flight strip. 'describes a four-month intensive study of a team of Paris en-route controunderstand their use of paper flight strips. The article also describes a coeight different control rooms in Franc ...

Keywords: activity theory, affordances, air traffic control, annotation, et paper flight strips, peripheral awareness, safety factors

4 Conference review

Paul Mc Kevitt, Conn Mulvihill, Seán Ó Nualláin September 2000 intelligence, Volume 11 Issue 3

**Publisher:** ACM Press

Full text available: pdf(571.47

KB) html Additional Information: full citation, reference (52.05 KB)

- 5 Using nonspeech sounds to provide navigation cues
- Stephen A. Brewster

September 1998 ACM Transactions on Computer-Human Interaction (5 Issue 3

**Publisher:** ACM Press

Full text available: pdf(298.94 Additional Information: full citation, abst KB) citings, index ten

This article describes 3 experiments that investigate the possibility of using nonspeech audio messages called earcons to provide navigational cues it A hierarchy of 27 nodes and 4 levels was created with an earcon for each defined for the creation of hierarchical earcons at each node. Participants their location in the hierarchy by listening to an earcon. Results of the first showed that participants c ...

**Keywords**: auditory interfaces, earcons, navigation, nonspeech audio, te interfaces

6 Towards intelligent recognition of multimedia episodes in real-time application

J. Gabbe, A. Ginsberg, B. Robinson

October 1994 Proceedings of the second ACM international conference Publisher: ACM Press

Full text available: pdf(999.61 Additional Information: full citation, abst KB) citings, index ten

The ability to automatically capture and index multimedia information for review is critical to the success of future multimedia services. In this pap to automatically generate indexes of real-time streams without requiring analysis. Our techniques involve segmenting continuous audio and videc and relating these to discrete events from the multimedia application, suc interactions, control events, and data content ...

7 A synchronization model for recorded presentations and its relevance for in

W. Hürst, R. Müller

October 1999 Proceedings of the seventh ACM international conference (Part 1)

**Publisher:** ACM Press

Full text available: pdf(1.84 Additional Information: full citation, abst citings, index ten

In order to improve the acceptance of recorded presentations, we introdu document type covering a wide range of different media classes typically scenario. Instances of this document type can be replayed using our time synchronization model. Random access in combination with the realized layered synchronization mechanism results in essential features such as I Scrolling and Unrestricted Cross-Referencing ...

8 SimTutor: a multimedia intelligent tutoring system for simulation modeling

Tajudeen A. Atolagbe, Vlatka Hlupic

December 1997 Proceedings of the 29th conference on Winter simulation Publisher: ACM Press

Full text available: pdf(612.63 KR) Additional Information: full citation, refer

9 Special issue on natural language generation: Describing complex charts in caption generation system

Vibhu O. Mittal, Giuseppe Carenini, Johanna D. Moore, Steven Roth September 1998 Computational Linguistics, Volume 24 Issue 3 Publisher: MIT Press

Full text available: pdf(2.58

MB) Additional Information: <u>full citation</u>, <u>abst</u>

<u>Publisher</u>

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Graphical presentations can be used to communicate information in relat succinctly and effectively. However, novel graphical presentations that r attributes and relationships are often difficult to understand completely u Automatically generated graphical presentations must therefore either be generating simple, conventionalized graphical presentations, or risk inco possible solution to this problem would be to extend automa ...

10 Reinventing the familiar: exploring an augmented reality design space for a

Wendy E. Mackay, Anne-Laure Fayard, Laurent Frobert, Lionel Médini January 1998 Proceedings of the SIGCHI conference on Human factors systems

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.14 Additional Information: full citation, reference MB)

Additional Information: full citation, reference index terms

Keywords: augmented reality, design space, interactive paper, participat prototyping

11 Intrusion detection systems and multisensor data fusion

Tim Bass

April 2000 Communications of the ACM, Volume 43 Issue 4

**Publisher:** ACM Press

Full text available: pdf(99.81

KB) html (34.77 KB)

Additional Information: full citation, refer

index terms

12 A human's eye view: motion blur and frameless rendering

Ellen J. Scher Zagier

May 1997 Crossroads, Volume 3 Issue 4

**Publisher:** ACM Press

Full text available: html(61.89 Additional Information: full citation, abst KB) citings, index ten

Frameless Rendering (FR) is a rendering paradigm which performs stock filtering by updating pixels in a random order, based on most recent avail displaying them to the screen immediately [1]. This is a departure from f approaches commonly experienced in interactive graphics. A typical interaction uses a single input state to compute an entire frame. This constrates known at the time the first pixel's value is computed. ...

13 ENO: synthesizing structured sound spaces

Michel Beaudouin-Lafon, William W. Gaver

November 1994 Proceedings of the 7th annual ACM symposium on Use software and technology

**Publisher:** ACM Press

Full text available: pdf(1.02 Additional Information: full citation, abst citings, index ten

ENO is an audio server designed to make it easy for applications in the U incorporate non-speech audio cues. At the physical level, ENO manages namely the audio hardware. At the logical level, it manages a sound spac various client applications. Instead of dealing with sound in terms of its 1 (i.e., sampled sounds), ENO allows sounds to be presented and controlle

level descriptions of sources, int ...

**Keywords**: auditory interfaces, client-server architecture, multimodal in audio, sound

14 Interactive information retrieval systems: from user centered interface desi

design

P. Mulhem, L. Nigay

August 1996 Proceedings of the 19th annual international ACM SIGIR Research and development in information retrieval

**Publisher:** ACM Press

Full text available: pdf(1.48 Additional Information: full citation, refe

MB) index terms

15 Data and knowledge base research at Hong Kong University of Science and

P. Drew, B. Hamidzadeh, K. Karlapalem, A. Kean, D. Lee, Q. Li, F. Lochc B. Wuthrich

December 1995 ACM SIGMOD Record, Volume 24 Issue 4

**Publisher:** ACM Press

Full text available: pdf(556.13 KB) Additional Information: full citation, abst

The National Technical University of Athens (NTUA) is the leading Tec Greece. The Computer Science Division of the Electrical and Computer Department covers several fields of practical, theoretical and technical control is involved in several research projects supported by the EEC, the govern companies. The Knowledge and Data Base Systems (KDBS) Laboratory 1992 at the National Technical University ...

16 Finite-state multimodal parsing and understanding

Michael Johnston, Srinivas Bangalore

July 2000 Proceedings of the 18th conference on Computational linguistics

Publisher: Association for Computational Linguistics

Full text available: pdf(594.55 Additional Information: full citation, abst KB) citings

Multimodal interfaces require effective parsing and understanding of utto content is distributed across multiple input modes. Johnston 1998 presen which strategies for multimodal integration are stated declaratively using grammar that is used by a multi-dimensional chart parser to compose in is highly expressive and supports a broad class of interfaces, but offers of for mutual compensation among the input mo ...

17 Collaborative virtual environment: Advanced real-time collaboration over 1

Chris Joslin, Tom Molet, Nadia Magnenat-Thalmann

October 2000 Proceedings of the ACM symposium on Virtual reality so technology

Publisher: ACM Press

Full text available: pdf(1.48 Additional Information: full citation, abst citings

In this paper we present our Networked Virtual Environment (NVE) Sys VLNET (Windows Virtual Life Network), which has been developed or Operating System (OS). This paper emphasizes the Real-Time aspect of the advanced interactivity that the system provides and its ability to trans Internet so that geographically distant users can collaborate with each otl communication, scene management, ...

**Keywords**: Advanced Interaction, Distance Collaboration, Motion Tracl Virtual Environment, Networks, Real-Time Interactions

18 Logic programming with the World-Wide Web

Seng Wai Loke, Andrew Davison

March 1996 Proceedings of the the seventh ACM conference on Hypert Publisher: ACM Press

Full text available: pdf(1.97 Additional Information: full citation, refe index terms

**Keywords**: World-Wide Web, common client interface, mobile code, m structured logic programming

19 Using code mobility to create ubiquitous and active augmented reality in m

Kari Kangas, Juha Röning

August 1999 Proceedings of the 5th annual ACM/IEEE international computing and networking

Publisher: ACM Press

Full text available: pdf(1.35 Additional Information: full citation, refe MB)

Keywords: augmented reality, mobile code, mobile computing, ubiquito

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Rı

1 Network support for mobile multimedia using a self-adaptive distributed pl

Zhuoqing Morley Mao, Hoi-sheung Wilson So, Byunghoon Kang January 2001 Proceedings of the 11th international workshop on Netwo systems support for digital audio and video

**Publisher:** ACM Press

Full text available: pdf(212.65 Additional Information: full citation, abst KB) index terms

Recent advancements in video and audio codec technologies~(e.g., Real multimedia streaming possible across a wide range of network condition increasing trend of ubiquitous connectivity, more and more areas have or of multiple wired and wireless networks. Because the best network service user moves, to provide good multimedia application performance, the set to user movement as well as network and computational res ...

2 The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 4 Publisher: ACM Press

Full text available: pdf(261.78 Additional Information: full citation, abst

KB)

citings, index ten

Transport layer protocols provide for end-to-end communication betwee This paper presents a tutorial on transport layer concepts and terminolog transport layer services and protocols. The transport layer protocol TCP reference point, and compared and contrasted with nineteen other protoc the past two decades. The service and protocol features of twelve of the protocols are summarized in both text and tables.

**Keywords**: TCP/IP networks, congestion control, flow control, transport service

3 BlueSky: a cordless networking solution for palmtop computers

Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Nagl Tripathi

August 1999 Proceedings of the 5th annual ACM/IEEE international computing and networking

**Publisher:** ACM Press

Full text available: pdf(1.31

<u>MB)</u>

Additional Information: full citation, refer

4 Supporting CORBA applications in a mobile environment

Mads Haahr, Raymond Cunningham, Vinny Cahill

August 1999 Proceedings of the 5th annual ACM/IEEE international computing and networking

**Publisher:** ACM Press

Full text available: Pdf(1.42 MB)

Additional Information: full citation, refe

index terms

5 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 Proceedings of the Conference on The Future of Software El Publisher: ACM Press

Full text available: pdf(2.07 Additional Information: full citation, refer

MB) index terms

6 A preservation-based multicast (RBM) routing protocol for mobile networl construction phase

M. Scott Corson, Stephen G. Batsell

December 1995 Wireless Networks, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.06 Additional Information: full citation, abst citings

We propose a combined multicast routing, resource reservation and adm protocol, termed Reservation-Based Multicast (RBM), that borrows the 'Point" or "Core" concept from multicast routing algorithms proposed for which is intended for operation in mobile networks and routes hierarchic streams based on user-specified fidelity requirements, real-time delivery prevailing network bandwidth constra ...

7 Collaborative augmented reality environments: integrating VR, working m distributed work spaces

Monika Büscher, Michael Christensen, Kaj Grønbæk, Peter Krogh, Preben Shapiro, Peter Ørbæk

September 2000 Proceedings of the third international conference on C virtual environments

**Publisher:** ACM Press

Full text available: pdf(1.03 Additional Information: full citation, abst citings, index ten

In this work, we present a new method for displaying stereo scenes, which rendering time of complex geometry. We first discuss a scene splitting state to partition objects to the distant background or the near foreground. Fur a computation rule for positioning a cutting plane in the scene.

**Keywords**: 3D workspace, CSCW, roomware, virtual office/project roomworking material

8 Risks to the public in computers and related systems

July 1997 ACM SIGSOFT Software Engineering Notes, Volume 22 Iss Publisher: ACM Press

Full text available: pdf(946.41 KB) Additional Information: full citation, inde

9 Dynamic network reconfiguration support for mobile computers

Jon Inouye, Jim Binkley, Jonathan Walpole
September 1997 Proceedings of the 3rd annual ACM/IEEE internation
Mobile computing and networking

**Publisher:** ACM Press

Full text available: pdf(1.60 Additional Information: full citation, reference MB)

Additional Information: full citation, reference makes index terms

10 A QoS adaptive transport system: design, implementation and experience

Andrew Campbell, Geoff Coulson
February 1997 Proceedings of the fourth ACM international conference
Publisher: ACM Press

Full text available: pdf(1.29 Additional Information: full citation, reference MB)

Additional Information: full citation, reference makes index terms

11 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2 Publisher: ACM Press

Full text available: pdf(233.31 Additional Information: full citation, abst KB) citings, index ten

Recent advances in wireless data networking and portable information all engendered a new paradigm of computing, called mobile computing, in a portable devices have access to data and information services regardless location or movement behavior. In the meantime, research addressing in mobile environments has proliferated. In this survey, we provide a concrucategorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/se dissemination, disconnected operation, mobile applications, mobile clien compuing, mobile data, mobility awareness, survey, system application

12 MEDIATE: video as a first-order datatype

Steinar Kristoffersen

November 1997 Proceedings of the international ACM SIGGROUP col Supporting group work: the integration challenge

**Publisher:** ACM Press

Full text available: Dpdf(1.43

MB)

Additional Information: full citation, refer

Keywords: CSCW, collaborative multimedia, groupware toolkits

13 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conferences

**Publisher:** ACM Press

Full text available: 2 pdf(5.73

<u>MB)</u>

Additional Information: full citation, refer

14 Design considerations and tools for low-voltage digital system design

Anantha Chandrakasan, Isabel Yang, Carlin Vieri, Dimitri Antoniadis June 1996 Proceedings of the 33rd annual conference on Design autom Publisher: ACM Press

Full text available: pdf(139.97 Additional Information: full citation, refe KB) index terms

A confederation of tools for capturing and accessing collaborative activity
Scott Minneman, Steve Harrison, Bill Janssen, Gordon Kurtenbach, Thoma

Smith, Bill van Melle

January 1995 Proceedings of the third ACM international conference o Publisher: ACM Press

Full text available: htm(73.96 Additional Information: full citation, reference KB)

KB)

index terms

**Keywords**: CSCW, activity capture, content-and content-based indexing digital audio and video, distributed multimedia systems, real-time indexi interfaces

16 The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

December 1999 ACM SIGOPS Operating Systems Review, Proceeding seventeenth ACM symposium on Operating systems pr Volume 33 Issue 5

**Publisher:** ACM Press

Full text available: Pdf(1.79 Additional Information: full citation, abst citings, index ten

Taking the concept of thin clients to the limit, this paper proposes that deshould just be simple, stateless I/O devices (display, keyboard, mouse, enshared pool of computational resources over a dedicated interconnection the same way as a building's telephone services are accessed by a collect devices. The stateless desktop design provides a useful mobility model in transparently resume their work on any desktop c ...

17 Communication control in computer supported cooperative work systems

Robert Simon, Robert Sclabassi, Taieb Znati

October 1994 Proceedings of the 1994 ACM conference on Computer s cooperative work

**Publisher:** ACM Press

Full text available: Additional Information: full citation, abst index terms

This paper presents AlphaDeltaPhi-groups (ADP-group) as a communical connection level management in distributed CSCW systems. In order to

CSCW communication patterns, an ADP-group is a related set of cooper whose communication is supported by allowing a spectrum of quality-of delivery reliability, atomicity and causal ordering options to co-exist wit ADP-group communication provides appropriate connection manage ...

Keywords: CSCW, group communication, multimedia, network connect

18 <u>Using channel state dependent packet scheduling to improve TCP throught</u>
<u>LANs</u>

Pravin Bhagwat, Partha Bhattacharya, Arvind Krishma, Satish K. Tripathi March 1997 Wireless Networks, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: Pdf(541.97 Additional Information: full citation, abst citings, index ten

In recent years, a variety of mobile computers equipped with wireless co devices have become popular. These computers use applications and pro developed for wired desktop hosts, to communicate over wireless channel networks, packets transmitted on wireless channels are often subject to be cause back to back packet losses. In this paper we study the effect of bur error recovery mechanisms employed in wireless MAC ...

19 <u>ATM Architectures Using Optical Technology: An Overview of Switching Multiplexing</u>

M. Guizani

July 1997 International Journal of Network Management, Volume 7 Is **Publisher:** John Wiley & Sons, Inc.

Full text available: pdf(525.89 Additional Information: full citation, abst KB) index terms

This overview presents recent studies on photonic switches and discusse different types, such as space-division switches, free-space switches, tim wavelength division switches, and frequency division switches. The arch applications of these switches are also discussed. © 1997 John Wiley &

20 An extensible probe architecture for network protocol performance measur © G. Robert Malan, Farnam Jahanian October 1998 ACM SIGCOMM Computer Communication Review, P
ACM SIGCOMM '98 conference on Applications, technological architectures, and protocols for computer communication Volume 28 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.83 Additional Information: full citation, abst citings, index ten

This paper describes the architecture and implementation of Windmill, a protocol performance measurement tool. Windmill enables experimenter broad range of protocol performance metrics by both reconstructing appl network protocols and exposing the underlying protocol layers' events. V three functional components: a dynamically compiled Windmill Protoco of abstract protocol modules, and an extensible experiment e ...

Keywords: online analysis, packet filter, passive measurement, protocol

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... EMMA: Extensible MultiModal
Annotation Markup Language ...
SDMI Portable Device Specification
— Part 1, Version 1.0 · SDP: Session
Description Protocol ...
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... EMMA (Extensible Multimodal Annotation

Language): emma, emmareqs0.9

· ENUM (E.164 Number

Mapping): rfc3761, rfc40020.9

EPP (Extensible Provisioning ...

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## **Multimodal** applications

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Application mobility will allow users to seamlessly switch between devices whilst ... Context Interfaces, Device Descriptions, Multimodal Architecture, etc. ...

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**Multimodal** Interfaces in Mobile **Devices** – The MONA Project. Hermann Anegg, Georg Niklfeld, ... related to registered users, currently active **sessions** ...

www.research.att.com/~rjana/MobEAII-Paper\_6.pdf - Similar pages

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The multimodal VR. interface consists of a force feedback device (SensAble ... switch. On the single click, a bar's height on the graph will. be read out. ...

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[PDF] Feeling Rough: Multimodal Perception of Virtual Roughness File Format: PDF/Adobe Acrobat - View as HTML clicking the switch on the probe of the PHANToM to select. the response that reflected their roughness judgment for. each trial. A training session ...

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Look Ma Bell, No Hands! - VoiceXML, X+V, and the Mobile Device ... This type of interaction, in which the user has more than one means of accessing data in his or her device, is sometimes called multimodal interaction. ...

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S Steglich, R Popescu-Zeletin - Multimedia and Expo,

2001. ICME 2001. IEEE International ..., 2001 -

choices.cs.uiuc.edu

... Instead, he can switch to any other terminal ... the future

challenge will be multi-

modal user interfaces ... to available input and output

devices, their suitability ...

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Casablanca: designing social communication devices for the home - group of 15 »

D Hindus, SD Mainwaring, N Leduc, AE Hagström, O ...

- Proceedings of the SIGCHI conference on Human factors in ..., 2001 - portal.acm.org

... a part of – you can **switch** between groups ... most visible parts of these **devices** were

implicitly ... The media-rich, multimodal, high-bandwidth connectivity that we ...

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ATLAS: A generic software platform for speech technology based applications - group of 6 »

H Melin - TMH-QPRS, Quarterly Progress and Status Report, 2001 - speech.kth.se

... methods can handle multi-modal media output devices, such ... telephony device, desktop

audio device, and audio ... creating multiple TTS engines and switch between them ...

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<u>Lessons</u> - group of 6 »

A Smailagic, DP Siewiorek, J Anhalt, F Gemperle, D ... - IEEE Journal on Intelligent Systems, 2001 - cs.cmu.edu ... agent, location awareness, multi-modal user interface ... stop their current activity,

switch to the ... request includes user identification and device identification. ...

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A coordination framework and architecture for internet groupware - group of 8 »

HP Dommel, JJ Garcia-Luna-Aceves - Journal of Network and Computer Applications, 2000 - sts.scu.edu

... Multimedia collaborative systems use a polymorphic or multimodal mix of ... where Rid

is a unique resource identifier owned by user Uid within session Sid. ...

Related Articles - View as HTML - Web Search - BL Direct

Research in multimedia and multimodal parsing and generation - group of 3 »

MT Maybury - Artificial Intelligence Review, 1995 - Springer

... techniques for building multimedia and multimodal interfaces, that is ... modal references

(eg, 'the red switch at the ... to tailor the design to the output device. ...

<u>Cited by 18 - Related Articles - Web Search - BL Direct</u>

[BOOK] Cooperative Multimodal Communication HC Bunt, RJ Beun - 2001 - Springer Cited by 9 - Related Articles - Web Search - Library Search

From unified messaging towards I-centric services for the virtualhome environment

S Van der Meer, S Arbanowski - Intelligent Network

Workshop, 2001 IEEE, 2001 - ieeexplore.ieee.org ... or voice command, via a GUI, multimodal) and the ... user has instructed the system to switch off all ... of various kinds of physical terminals, devices, sensors, and ... Cited by 4 - Related Articles - Web Search

Designing the user interface for **multimodal** speech and pen-based gesture applications: State-of-the-... - group of 22 »

S Oviatt, P Cohen, L Wu, J Vergo, L Duncan, B Suhm ... - Human-Computer Interaction, 2000 - Lawrence Earlbaum ... users have a strong tendency to **switch** modes after ... In this respect, **multimodal** interfaces have the potential to ... before a keyboard is a

viable input device. ...

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Towards Immersive Modeling-Challenges and Recommendations: A Workshop Analyzing the Needs of ... - group of 5 »

J Deisinger, R Blach, G Wesche, R Breining, A ... - EuroGraphics Conference of Virtual Environments, Amsterdam, ..., 2000 - vr.iao.fhg.de

... The button **device** was mentioned as being inadequate for ... were mentioned, one could

be a switch between the ... best joint interpretation of a multimodal input or ...

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L3	1	455/???.ccls. and stor\$3 adj session same (multimodal or "multi-modal" or "multi modal")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 09:44
L4	1	370/???.ccls. and stor\$3 adj session same (multimodal or "multi-modal" or "multi modal")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 09:45
L5	6	370/???.ccls. and session same (multimodal or "multi-modal" or "multi modal")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 09:46
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·L7	60	I6 not I5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/09/18 09:52
L8	2214	709/201.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 09:55
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L10	1797	709/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 09:52
L11	3427	709/227.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2006/09/18 09:53
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S21	0	("6834195").URPN.	USPAT	OR	OFF	2005/02/17 16:58

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S22	9	("20010044310"   "20030006913"   "20030060211"   "6449485"   "6529728"   "6580914"   "6608556"   "6611687"   "6677894").PN. OR ("6834195").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/17 17:04
S23	0	((multi-modal) or ( multi-channel) ) near3 subscriber and (resum\$3 near3 session)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 17:07
S24	510	gam\$3 and session same ( resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 08:54
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S30	0	gam\$3 near5 session near5 ( resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal ) and (id or identifier or unique\$2) and detect\$3 near3 (device or hardware or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:43

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S33	0	("6577733").URPN.	USPAT	OR	OFF	2005/02/22 11:44
S34	229	session same (continu\$5 or resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal ) and (id or identifier or unique\$2) and detect\$3 near3 (device or hardware or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:45
S35	93	session near5 (continu\$5 or resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal ) and (id or identifier or uniqeu\$2) and detect\$3 near3 (device or hardware or peripheral)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 11:53
S36	25	session near5 ( continu\$5 or resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal ) and (id or identifier o'r unique\$2) and detect\$3 near3 (device or hardware or peripheral) and (journal\$3 or record\$3 or log\$4) same (disconnect\$3 or reconnect\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 14:39

S37		"6546425".pn. and resum\$5 and (id or identifier or unique)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 14:39
S38	1	"6546425".pn. and resum\$5 and (id or identifier or unique) and (gui or ui or (user adj interface))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:51
S39	3353	(develop\$4 or creat\$3 or generat\$3) near3 (graphical\$2 or visual\$2 or icon\$6) near3 (program or application or module)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:57
S40	2954	(develop\$4 or creat\$3 or generat\$3) near3 (graphical\$2 or visual\$2 or icon\$6) near3 (program or application )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:54
S41	2224	(graphic\$4 or visual\$2 or icon\$6) near3 (develop\$4 or creat\$3 ) and (data-min\$3 or spy or spyware or datamin\$3 or ( (monitor\$3 or track\$3) near2 (subscriber or user or client ) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 16:56
S42	73	((multi-modal) or ( multi-channel) ) near3 subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:55
S43	1	S39 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:55
S44	34	(graphic\$4 or visual\$2 or icon\$6) near3 (develop\$4 or creat\$3 ) and (data-min\$3 or spy or spyware or datamin\$3 or ( (monitor\$3 or track\$3) near2 (subscriber or user or client ) ) ) and (plurality near3 subscriber)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 16:57
S45	319	(develop\$4 or creat\$3 or generat\$3) near3 (graphical\$2 or visual\$2 or icon\$6) near3 (program or application or module ) and 717/1??.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:57

S46	18	(developt4 or croate3 or consutts)	LIC DCDUD	OR	011	2005/02/22 46 ==
		(develop\$4 or creat\$3 or generat\$3) near3 (graphical\$2 or visual\$2 or icon\$6) near3 (program or application or module ) and 717/1??.ccls. and subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 16:57
S47	17	("5974252").URPN.	USPAT	OR	OFF	2005/02/22 17:01
S48	0	("5974252").URPN. and 717/109.ccls.	USPAT	OR	OFF	2005/02/22 17:01
S49	5	(program\$4 near3 develop\$4 ) and (subscriber) and 717/109.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/22 17:13
S50	0	(graphic\$4 or visual\$2 or icon\$6) near3 (develop\$4 or creat\$3 ) and detect\$3 near5 "out of sequence" near5 request	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:53
S51	0	( detect\$3 near5 "out of sequence") near5 request same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2005/02/23 07:53
S52	0	( detect\$3 near5 "out of sequence") same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:54
S53	0	( "out of sequence") same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:54
S54	3017	request near5 (count\$3 or number) same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:55
S55	28	(monitor\$3 or track\$3) near3 (request near5 (count\$3 or number) ) same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:56
S56	28	(monitor\$3 or track\$3) near3 (request near5 (count\$3 or number) ) same subscriber	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 08:10

S57	413	subscriber and (generat\$3 or produc\$3 or output\$4 ) near3 (content or display or web or page or output) near3 (personalized or optimized or custom\$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2005/02/23 08:12
S58	273	subscriber and (generat\$3 or produc\$3 or output\$4 ) near3 (presentation or content or display or web or page or output) near3 (personalized or optimized or custom\$7) and parameter	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 08:14
S59	91	subscriber and (generat\$3 or produc\$3 or output\$4 ) near3 (format\$4 or presentation or content or display or web or page or output) near3 (personalized or optimized or custom\$7) and parameter and ("data min\$3" or (monitor\$3 near3 usage) or spy or spyware or cookie)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 08:54
S60	98	("5349678"   "5377326"   "5392390"   "5410543"   "5426594"   "5666530"   "5666553"   "5673322"   "5684828"   "5684990"   "5694546"   "5727129"   "5727159"   "5727202"   "5732074"   "5740364"   "5754774"   "5768511"   "5790977"   "5794259"   "5799063"   "5802292"   "5805807"   "5809242"   "5813007"   "5832489"   "5850517"   "5862339"   "5862346"   "5864676"   "5873100"   "5877766"   "5881234"   "5884323"   "5890158"   "5895471"   "5896502"   "5906657"   "5918013"   "5918237"   "5922045"   "5928329"   "5937163"   "5943676"   "5946697"   "5948066"   "5953392"   "5954795"   "5961601"   "5961602"   "5974238"   "5978828"   "5978833"   "5978842"   "5987454"   "5987476"   "5987499"   "5991800"   "6000000"   "6006231"   "6006274"   "6009462"   "6012083"   "6021433"   "6023698"   "6023708"   "6021433"   "6023698"   "6023708"   "6032162"   "6035324"   "6041360"   "6049821"   "6052735"   "6058416"   "6061718"   "6065051"   "6065059"   "6070184"   "6076109"   "6085192"   "6119167"   "6131096"   "6148330"   "6161146"   "6167255"   "6195692"   "6209027"   "6209111"   "6226650"). PN. OR ("6341316").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/23 08:26

S61	1880	("5349678"   "537732	5"   "5392390"	US-PGPUB;	OR	OFF	2005/02/23 08:28
		"5410543"   "5426594	"   "5666530"	USPAT;			
		"5666553"   "5673322	"   "5684828"	USOCR		ĺ	
		"5684990"   "5694546	"   "5727129"				
		"5727159"   "5727202	"   "5732074"				
		"5740364"   "5754774	"   "5768511"				
		"5790977"   "5794259	"   "5799063"				
		"5802292"   "5805807	"   "5809242"		+		
İ		"5813007"   "5832489	•				
		"5862339"   "5862346	"   "5864676"				
		"5873100"   "5877766	•				
		"5884323"   "5890158	•				
		"5896502"   "5906657	"   "5918013"				
		"5918237"   "5922045					
-		"5937163"   "5943676	•				
		"5948066"   "5953392	•		*		
		"5961601"   "5961602					
		"5978828"   "5978833	•				
		"5987454"   "5987476					
.		"5991800"   "6000000					
		"6006274"   "6009462	•				
İ		"6021433"   ("602369	•				
		"6026474"   "6029175					
		"6032162"   "6035324		Ì			
		"6049821"   "6052735	•				
		"6061718"   "6065051	!				,
		"6070184"   "6076109			*	,	
		"6119167"   "6131096	•				
		"6161146"   "6167255	•				
		"6209027"   "6209111	• •				
		PN. OR ("6341316").U	•				
		(graphical\$2 or visual\$	32 or icon\$6 )				

S62	78	("5349678"   "5	377326"	"5392390"	US-PGPUB;	OR	OFF	2005/02/23 08:29
		"5410543"   "54	126594"	"5666530"	USPAT;			
		"5666553"   "56	573322"	"5684828"	USOCR			
	,	"5684990"   "56	594546"	"5727129"				
		"5727159"   "57	727202"	"5732074"   :	l			
			754774"	"5768511"				
		"5790977"   "57	794259"	"5799063"				
			305807"	"5809242"				
			332489"	"5850517"				
			362346"	"5864676"				
		"5873100"   "58	377766"	"5881234"				*
		"5884323"   "58		"5895471"				
		"5896502"   "59		"5918013"				
		"5918237"   "59	922045"	"5928329"				
			943676"	"5946697"				
		•	953392"	"5954795"				
		"5961601"   "59		"5974238"				
		"5978828"   "59	78833"	"5978842"				,
		"5987454"   "59	•	"5987499"				
		"5991800"   "60		"6006231"				
		"6006274"   "60		"6012083"				
		"6021433"   ("6		•				
	ļ	"6026474 <b>"</b>   "60		"6029195"				
	i	"6032162"   "60		"6041360"	·			
		"6049821"   "60	•	"6058416".				
		"6061718"   "60	65051"	"6065059"	-8-			
		"6070184"   "60		"6085192"				
		"6119167"   "61		"6148330"				
		"6161146"   "61						
		"6209027"   "62						
		PN. OR ("63413						
		(graphical\$2 or		or icon\$6)				
		near3 develop\$	4					

					-1	·
S63	4	(("5349678"   "5377326"   "5392390"   "5410543"   "5426594"   "5666530"   "5666553"   "5673322"   "5684828"   "5684990"   "5694546"   "5727129"   "5727159"   "5727202"   "5732074"   "5740364"   "5754774"   "5768511"   "5790977"   "5794259"   "5799063"   "5802292"   "5805807"   "5809242"   "5813007"   "5832489"   "5864676"   "5873100"   "5877766"   "5881234"   "5884323"   "5890158"   "5895471"   "5896502"   "5906657"   "5918013"   "5918237"   "5922045"   "5928329"   "5937163"   "5943676"   "5946697"   "5948066"   "5953392"   "5974238"   "5978828"   "5978833"   "5978842"   "5987454"   "5987476"   "5987499"   "5991800"   "6000000"   "6006231"   "6006274"   "6009462"   "6012083"   "6026474"   "6029175"   "6023708"   "602474"   "6029175"   "6029195"   "6032162"   "6035324"   "6041360"   "6049821"   "6052735"   "6058416"   "606718"   "6065051"   "6065059"   "6070184"   "6076109"   "6085192"   "6119167"   "6131096"   "6148330"   "6161146"   "6167255"   "6195692"   "6209027"   "6209111"   "6226650"). PN. OR ("6341316").URPN.) and (graphical\$2 or visual\$2 or icon\$6 ) near3 develop\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/23 08:29
S64	61	subscriber and (format\$4 or presentation or content or display or web or page or output) near3 (personalized or optimized or custom\$7) same ( (html or ml or xml or markup) and (template or framework))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 09:04
S65	2	"6049664".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:28
S66	2	"6553412".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:33

		•				
S67	2397	709/227.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:34
S68	5105	709/203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:35
S69	2879	709/219.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:34
S70	7	709/227.ccls. and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:34
S71	17	709/203.ccls. and S57	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 10:35
S72	158	( (wireless or cellular or mobile) and ( voice or pstn ) and (wire\$2 or line or internet or network\$3 ) ) near3 ( access\$3 or link\$3 or connect\$3 or via) near3 (application or content or program or module or site or page or web )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/29 14:56
S73	8	( (wireless or cellular or mobile or handheld or pda ) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 ) ) near3 ( access\$3 or link\$3 or connect\$3 or via) near3 (application or content or program or module or site or page or web ) and ((anytime or anywhere or push or pull of offline) near2 access\$3 ) and ( "access terminal" or "web browser" or browser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/29 14:45

S74	. 9	( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) ) near3 ( access\$3 or link\$3 or connect\$3 or via) near3 (application or content or program or module or site or page or web ) and ((anytime or anywhere or push or pull of offline) near2 access\$3 ) and ( "access terminal" or "web browser" or browser)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/29 14:54
S75	299	( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) ) same detect\$3 near3 ( client or device)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .·	OFF	2005/08/29 14:56
S76	299	( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) ) same detect\$3 near3 ( client or device)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/31 08:38
S77	2	S72 and S76	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/29 14:57
S78	8	("6577733" "6546425" "6049644" ).pn. or "20030126584"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/29 15:09
S79	242	remote\$2 near3 "access application"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/29 15:10
S80	2	S72 and S79	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2005/08/29 15:10
S81	246	remote\$2 near3 access\$3 near3 modes	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/29 15:11

	1	* ****				
S82	0	S72 and S81	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/29 15:11
S83	<b>75</b>	remote\$2 near3 access\$3 near3 modes and ( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/29 15:11
S84	158	"anywhere access"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/30 17:16
S85	. 2	"anywhere access" and ( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) ) same detect\$3 near3 ( client or device)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/30 17:17
S86	28	(anywhere near3 access\$3 ) and ( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" ) ) same detect\$3 near3 ( client or device)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/31 07:39
S87	. 1	"6938080".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/31 07:39
S88	16	("5784463"   "5964891"   "5970473"   "5991746"   "6006266"   "6049877"   "6158011"   "6233565"   "6304578"   "6324267"   "6341127"   "6341353"   "6363434"   "6470378"   "6516416"   "6563793").PN. OR ("6938080").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/08/31 08:04
S89	16	( ("5784463"   "5964891"   "5970473"   "5991746"   "6006266"   "6049877"   "6158011"   "6233565"   "6304578"   "6324267"   "6341127"   "6341353"   "6363434"   "6470378"   "6516416"   "6563793").PN. OR ("6938080").URPN. ) and (lan internet network wireless "carrier wave" phone pda voice speech cellular mobile handheld wap smart )	US-PGPUB; USPAT; USOCR	OR ·	OFF	2005/08/31 08:09

S90	3254	( (wireless or cellular or mobile or handheld or pda or wap or smart) and ( voice or speech or pstn or phone or videophone ) and (wire\$2 or line or internet or network\$3 or "tcp/ip" or lan or wan ) ) same (plurality or multi\$3 or multi-channel or "two or more") near2 (link or connection or protocol or communication )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 08:53
S91	585	gam\$3 and session same ( resum\$3 or resumption or continu\$5 or reinitiat\$3 ) and (id or identifier or unique ) same (subscriber or client or multi-channel or multi-modal or multichannel or multimodal )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 08:55
S92	26	S90 and S91	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 09:07
S93	828	execut\$3 near3 (multiple or multi or plurality) near2 (connection or link or access or channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 09:09
S94	1	execut\$3 near3 (multiple or multi or plurality or "one or more" or "two or more") near2 (connection or link or access or channel) same ((plurality or multiple or "one or more" or "two or more") adj subscriber)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2005/08/31 09:26
S95	47340	(markup or "mark-up" or ml or xml or sgml or html) and (associat\$3 or map\$4 or relat\$3 or identify or identifi\$4 or specific or specify ) adj (device or peripheral or type or computer or pda or laptop or cellular or wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 09:36
S96	1457	(associat\$3 or map\$4 or relat\$3 or identify or identifi\$4 or specific or specify ) adj (markup or "mark-up" or ml or xml or sgml or html) and (associat\$3 or map\$4 or relat\$3 or identify or identifi\$4 or specific or specify ) adj (device or peripheral or type or computer or pda or laptop or cellular or wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ÓN	2005/08/31 09:37

S97	5	S93 and S96	US-PGPUB; USPAT; EPO; JPO; DERWENT;	OR	ON	2005/08/31 14:40
S98	1	"20020138617" and execut\$3	IBM_TDB US-PGPUB;	OR	ON	2005/08/31 14:41
			USPAT; EPO; JPO; DERWENT; IBM_TDB			
S99	1	"20020138617" and subscribers	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 14:42
S10 0	0	"20020138617" and subscription	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 14:43
S10 1	1	"20020138617" and dsl	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 15:01
S10 2	1	"20020138617" and (id or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/31 15:01
S10 3	2	"20020138617" and (id or identification or identifier)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 07:15
S10 4	1	"20020138617" and (billing or charges )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 08:12
S10 5	1	"20020138617" and (new )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 08:15
S10 6	0	"20020138617" and (start\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 08:15

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S10 7	0	"20020138617" and (begin\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2005/09/01 11:09
S10 8	1913	709/225.ccis.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 11:10
S10 9	193	709/225.ccls. and session and device and (markup or xml or ml) and (internet or desktop or wireless or cellular or phone or smart or telephone or pda or mobile or pager or laptop or voice)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 11:12
S11 0	261	709/225.ccls. and (session or transaction) and device and (markup or xml or ml) and (internet or desktop or wireless or cellular or phone or smart or telephone or pda or mobile or pager or laptop or voice)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 11:13
S11 1	5	709/225.ccls. and (session or transaction) and (detect\$3 near2 device) and (genera\$3 near2 (content or output))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 11:13
S11 2	578	717/124.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2005/09/01 14:33
S11 3	223	717/125.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/01 14:33
S11 4	162	717/125.ccls. and (remote\$2 or network or distributed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/01 14:34
S11 5	157	717/125.ccls. and (remote\$2 or network or distributed) and (component or module or object or bean or ejb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 14:34

S11 6	414	717/124.ccls. and (remote\$2 or network or distributed)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/01 14:34
S11 7	400	717/124.ccls. and (remote\$2 or network or distributed) and (component or module or object or bean or ejb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 14:37
S11 8	182	717/124.ccls. and (remote\$2 or network or distributed) and (object or component or module or object or bean or ejb) and (record\$3 or log\$4 or analyz\$3) and performance	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 14:35
S11 9	48	717/124.ccls. and (remote\$2 or network or distributed) near2 test\$3 and (component or module or object or bean or ejb)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/01 14:37
S12 0	1830	(multimodal or "multi-modal" or "multi modal") and (cml or xml or ml)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/22 10:07
S12 1	<b>77</b> -	(multimodal or "multi-modal" or "multi modal") and (cml or xml or ml) and (device near5 specific)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/22 11:02
S12 2	63	(multimodal or "multi-modal" or "multi modal") and (cml or xml or ml) and (device near5 specific) and (select\$5 or enabl\$4 or disabl\$4 or (case near3 switch)) same (application or framework or template)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/22 11:10
S12 3	68	application same ( enabl\$4 near3 ( (specific or tailor\$3) near3 (output or presentation or display or view)) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF .	2006/03/22 11:20
S12 4	9169	application same ( (specific\$4 or tailor\$3) near3 (output or presentation or display or view))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:21

S12 5	534	application same ( (specific\$4 or tailor\$3) near3 (output or presentation or display or view)) and "device type"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:21
S12 6	. 2	"20020138617"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:03
S12 7	2	"20020138617"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:03
S12 8	1	"20020138617" and (stor\$3 near5 session)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:07
S12 9	1	"20020138617" and session	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:09
S13 0	5717	subscriber same (disconnect\$3 or drop\$4 ) and (stor\$3 or session or thread)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/03/27 13:13
S13 1	1634	subscriber same (disconnect\$3 or drop\$4 ) same (stor\$3 or session or thread)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:13
S13 2	533	subscriber near5 (disconnect\$3 or drop\$4 ) same (stor\$3 or session or thread)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:14
S13 3	12	subscriber near5 (disconnect\$3 or drop\$4 ) same stor\$3 same ( session or thread)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 13:34
S13 4	125	(subscriber or session) near5 (disconnect\$3 or drop\$4 ) and (subscriber or session) near5 (reconnect\$3 ) and stor\$3 same ( session or thread)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2006/03/27 13:36

S13 5	8	(subscriber or session) near5 (disconnect\$3 or drop\$4 ) and (subscriber or session) near5 (reconnect\$3 ) and stor\$3 same ( session or thread) and (thread near3 (id or identifier or identity or identification) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 14:20
S13 6	8	(subscriber or session) near5 (disconnect\$3 or drop\$4 ) and (subscriber or session) near5 (reconnect\$3 ) and stor\$3 same ( session or thread) and (thread near3 (id or identifier or identity or identification) ) and (sequenc\$3 or order\$3 or fragment\$5 or reassembl\$3 or "re-assembling" )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/27 14:22
S13 7		(subscriber or session) near5 (disconnect\$3 or drop\$4 ) and (subscriber or session) near5 (reconnect\$3 ) and stor\$3 same ( session or thread) and (thread near3 (id or identifier or identity or identification) ) and (sequenc\$3 or order\$3 or fragment\$5 or reassembl\$3 or "re-assembling" or assembl\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2006/03/27 14:38
S13 8	2209	device near5 (plurality or multiple or second or alternat\$3 or different ) and session near5 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 ) and (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 14:01
S13 9	349	device near3 (plurality or multiple or second or alternat\$3 or different ) and session near3 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 ) same (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 14:02
S14 0	. 0	(multi-channel or multichannel) same device near3 (plurality or multiple or second or alternat\$3 or different ) and session near3 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 ) same (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 14:03

S14 1	18	(multi-channel or multichannel or "multi channel" or modal or multimodal or "multi modal") and device near3 (plurality or multiple or second or alternat\$3 or different ) and session near3 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 ) same (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 08:16
S14 2	7	("6912581" "6807529" ).pn. "20030187944"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 16:57
S14 3	. 0	("2003/0187944").URPN.	USPAT	OR	OFF	2006/09/06 17:01
S14 4	6	("6011909"   "6076108"   "6078948"   "6088728"   "6519643"   "6694008"). PN. OR ("6912581").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/06 17:02
S14 5	7	("20020128845"   "20030046316"   "20030126330"   "5640590"   "6324511"   "6570555").PN. OR ("6807529").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/06 17:13
S14 7	2211	709/201.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/06 17:14
S14 8	889	709/207.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/06 17:17
S14 9	30	("5960432" "5937163" "6128655" "6408360" "6477565" "6584548" "5603034" "5850548" "5887172" "5991535" "6073163" "6324681" "6757709" "6286029" "6735741").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/07 07:59
S15 0	. 20	("6757709" "6286029" "6477565" "6735741" "6892226" "5933811" "5850433" "5572643" ).pn. "20020002569" "20020124055"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/07 07:59

S15 1	21	(multi-channel or multichannel or "multi channel" or modal or multimodal or "multi modal") and (device or (display near3 interface)) near3 (plurality or multiple or second or alternat\$3 or different ) and session near3 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 or reset\$4 ) same (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 08:15
S15 2	18	(multi-channel or multichannel or "multi channel" or modal or multimodal or "multi modal") and device near3 (plurality or multiple or second or alternat\$3 or different ) and session near3 (reestablish\$4 or reconnect\$3 or reconstruct\$3 or reenact\$3 or continu\$5 ) same (id or identifier or unique or key or identification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 08:17
S15 3	3	S151 not S152	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 08:17